

**Listing of the Claims:**

1. (Currently Amended) An air filtration cartridge suitable for use in the treatment of air in a forced airflow air supply system having an air supply conduit provided with an in-line filtration cartridge mounting formed and arranged for releasably mounting a replaceable air filtration cartridge so that the air supply is passed through said cartridge, said cartridge comprising a casing having:

an upstream stage defining a chamber, the chamber being defined by an earthed casing comprising a metal or a plastics material impregnated or coated with a metallic material and having an inlet for receiving a said forced airflow, in use of the cartridge, and an outlet; and;

mounting, inside said chamber, at least one low power coronal discharge ozone generator mounted inside the chamber, said at least one ozone generator being formed and arranged for generating a restricted concentration of ozone and any other reactive species formed together therewith, within an inactivating zone contained within said cartridge, through which said air flow is passed in use of said cartridge, which restricted concentration is sufficient to effectively [[to]] inactivate airborne pollutant material entrained in said the air flow, yet which restricted concentration decays sufficiently outside said inactivating zone so that the concentration of ozone in the cleaned air expelled from said cartridge, preferably from said upstream stage thereof, is at a physiologically acceptable level without the use of an ozone decomposition catalyzer; and

a downstream stage coupled to said upstream stage outlet and formed and arranged for mounting, in use of the cartridge, a high airflow electrostatic filter.

2. (Original) The cartridge of Claim 1 wherein said low power corona discharge ozone generator comprises a low power corona discharge device provided with a low power high voltage output transformer.

3. (Original) The cartridge of Claim 2 wherein the low power corona discharge device comprises concentric tubular metal gauze electrodes separated by a tubular strengthened glass dielectric.

4. (Currently Amended) The cartridge of Claim 3 wherein the glass dielectric is of includes titanium dioxide strengthened borosilicate glass.

5. (Original) A cartridge according to claim 1 wherein the low power corona discharge ozone generator has a power rating of from 4 to 50 watts.

6. (Currently Amended) A cartridge according to claim 1 wherein an AC supply with a frequency in the range from 50 to 1000 Hz is used for said alternating current corona discharge ozone generator, an AC supply with a frequency in the range from 50 to 1000 Hz.

7. (Currently Amended) A cartridge according to claim 1 wherein is used an AC supply with an operating voltage in the range from 1 to 6 kV provides power to the corona discharge ozone generator.

8. (Currently Amended) A cartridge according to claim 1 wherein is used an AC supply providing provides a (starting) current in the range from 1 to 10 mA to the corona discharge ozone generator.

9. (Currently Amended) A cartridge according to claim 1 wherein a solid dielectric is used with the [[a]] low power corona discharge device with a solid dielectric ozone generator.

10. (Currently Amended) A cartridge according to claim 1 wherein is provided further comprising an array of ozone generators distributed across the airflow path through said upstream stage.

11. (Currently Amended) A cartridge according to claim 1 wherein said a downstream stage filter mounting defined by the downstream stage has a depth of from 5 to 50 cms.

12. (Currently Amended) A cartridge according to claim 1 wherein said at-least-one inlet is fitted with at least one filter.

13. (Currently Amended) A cartridge according to claim 12 wherein is-provided further comprising at least one inlet filter for removing smoke.

14. (Currently Amended) A cartridge according to claim 1 wherein said downstream stage includes an annular air reservoir extending around a filter housing for said high airflow electrostatic filter, downstream of said filter, for the purpose of ensuring that the flow of air back into the aircraft air ~~recirculation~~ supply system is substantially unrestricted.

15. (Currently Amended) A cartridge according to claim 1 wherein are-provided further comprising seals formed and arranged for ensuring the forced airflow is directed through said upstream and downstream stages of the cartridge.

16. (Currently Amended) A cartridge according to claim [[1]] 11 wherein said filter mounting has a said high airflow electrostatic filter mounted therein.

17. (Original) A cartridge according to claim 16 wherein said filter is in the form of a stack of filter elements.

18. (Currently Amended) A method of cleaning air without the use of an ozone decomposition catalyzer, comprising the steps of:

providing a cartridge according to claim 1 with a said high airflow electrostatic filter mounted in the filter mounting thereof;

powering the ozone generator of said cartridge so as to generate ozone in the inactivation zone of said cartridge; and

passing a flow of said air through said inactivation inactivation zone and then through said filter.